

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P588629

Luminaire Tested: **ARC-CA6-90-740-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-372-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC-CA6-90-740-U-33-6-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4091 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 0.92')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

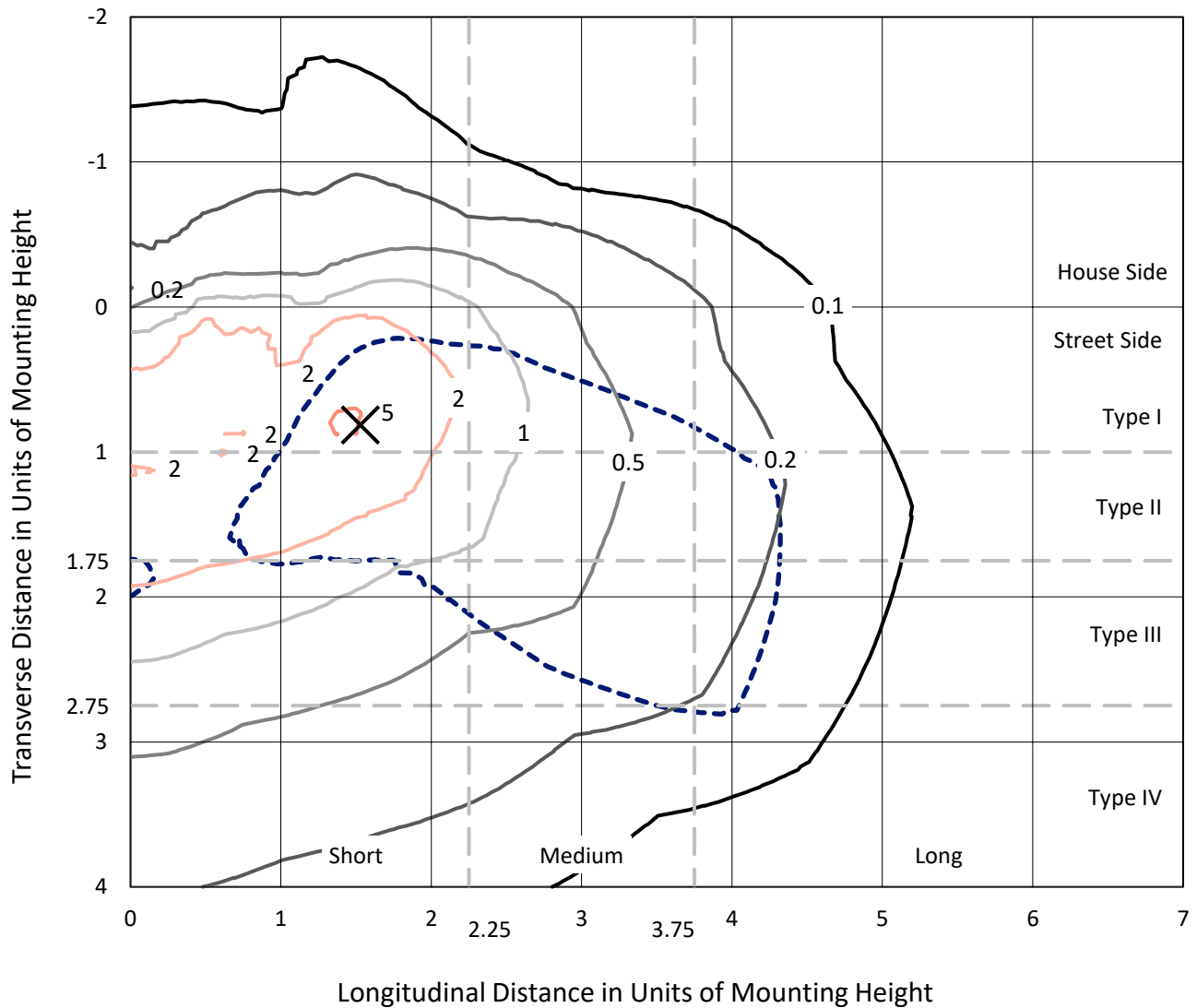
Input Watts (W): 47.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P588629
 CATALOG NUMBER: ARC-CA6-90-740-U-33-6-5-X-GHSS

Iso-Footcandle Lines of Horizontal Illumination

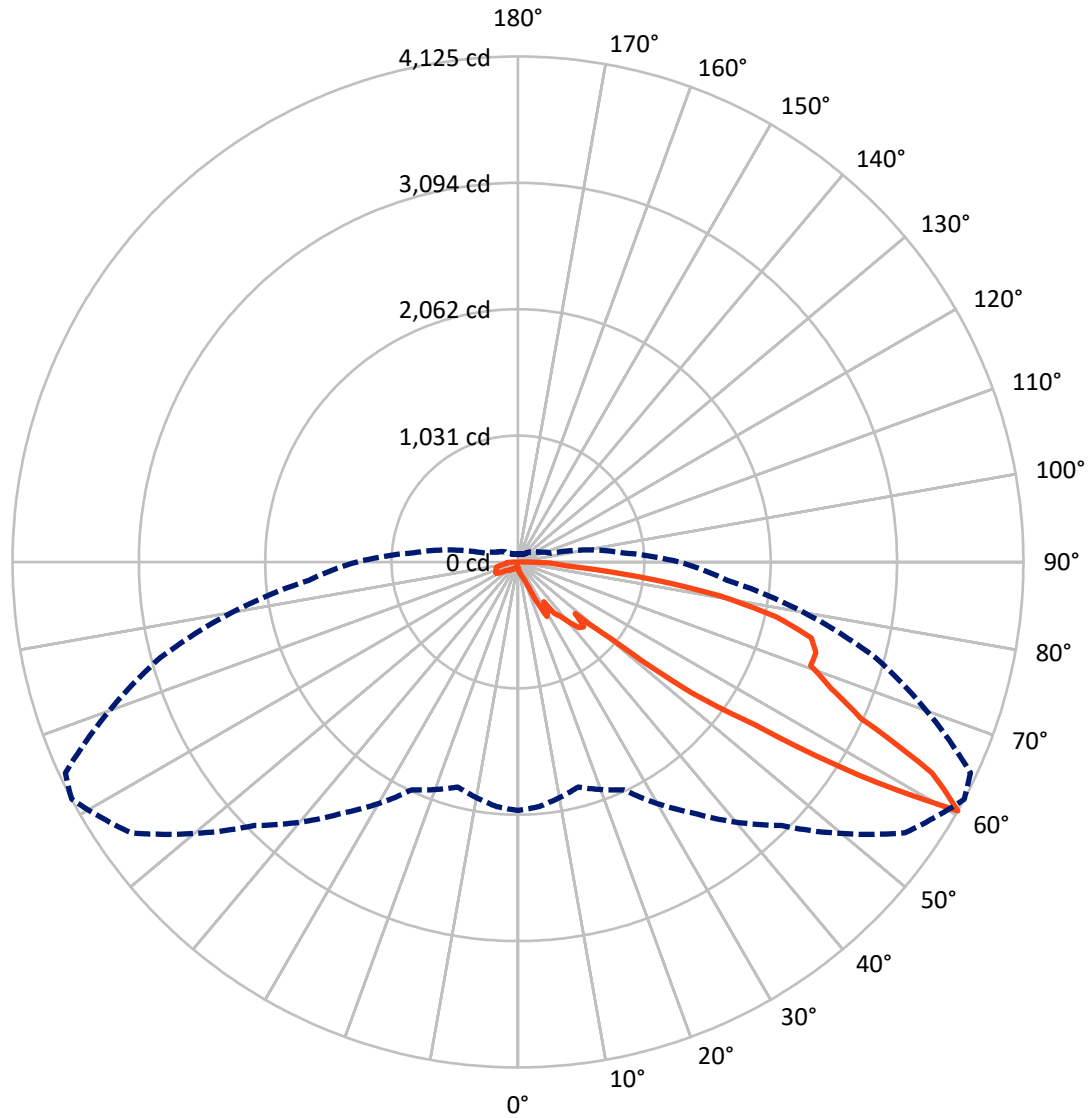
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P588629
CATALOG NUMBER: ARC-CA6-90-740-U-33-6-5-X-GHSS

Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P588629

CATALOG NUMBER: ARC-CA6-90-740-U-33-6-5-X-GHSS

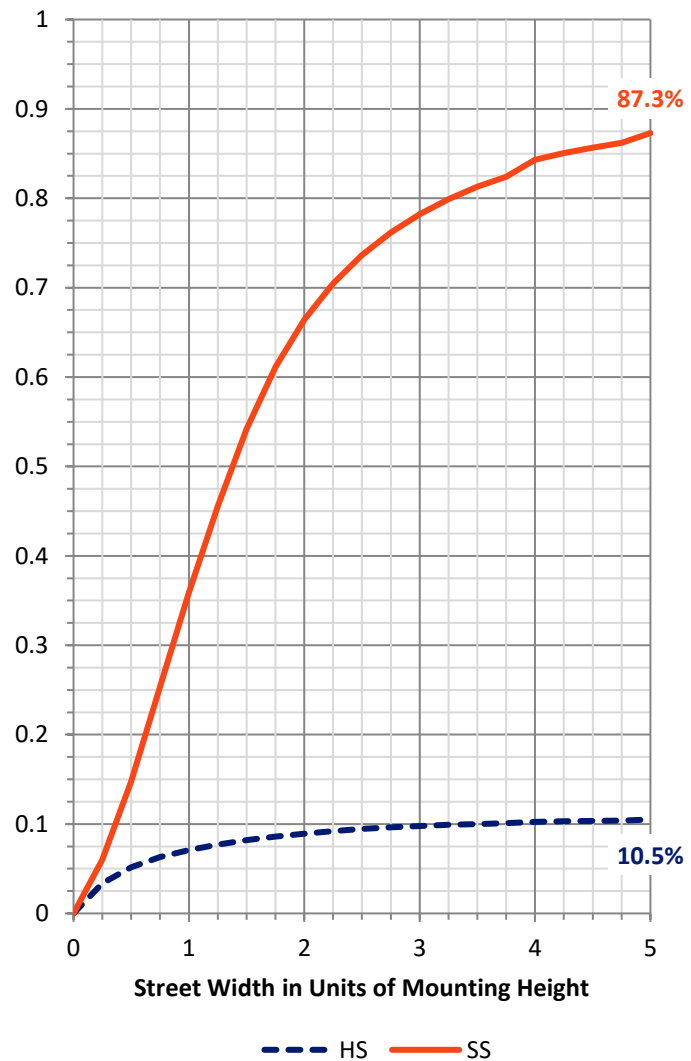
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	446.6	0.0	446.6
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	3644.4	0.0	3644.4
	% Fixture	89.1	0.0	89.1
Total	Lumens	4091.0	0.0	4091.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.1
10°-20°	23.2	0.6
20°-30°	86.8	2.1
30°-40°	171.4	4.2
40°-50°	296.6	7.3
50°-60°	878.4	21.5
60°-70°	1297.7	31.7
70°-80°	1040.9	25.4
80°-90°	290.4	7.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4091.0	100.0
0°-180°	4091.0	100.0

Coefficient of Utilization



REPORT NUMBER: P588629

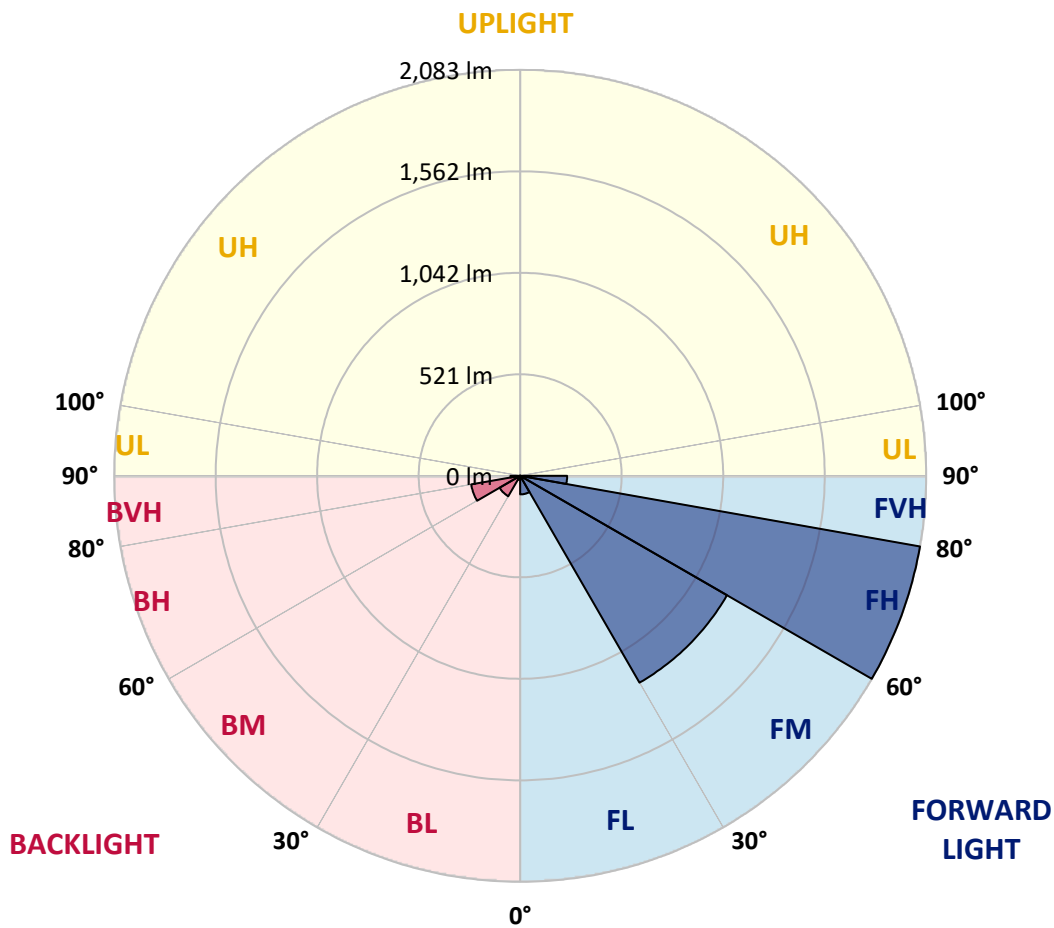
CATALOG NUMBER: ARC-CA6-90-740-U-33-6-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	95.6	2.3			
FM (30°-60°)	1225.1	29.9			
FH (60°-80°)	2083.1	50.9			G2/5000
FVH (80°-90°)	240.7	5.9			G3/500
BL (0°-30°)	19.9	0.5	B0/110		
BM (30°-60°)	121.4	3.0	B0/220		
BH (60°-80°)	255.4	6.2	B1/500		G1/500
BVH (80°-90°)	49.8	1.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





REPORT NUMBER: P588629

CATALOG NUMBER: ARC-CA6-90-740-U-33-6-5-X-GHSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
2.5°	68.5	67.4	65.2	63.0	61.9	60.8	59.7	58.6	57.5	54.2	51.9
5°	84.0	82.9	80.7	77.4	74.0	71.8	70.7	69.6	67.4	64.1	58.6
7.5°	95.0	95.0	95.0	92.8	89.5	85.1	81.8	79.6	77.4	72.9	67.4
10°	108.3	107.2	107.2	103.9	100.6	97.3	95.0	92.8	90.6	84.0	75.2
12.5°	118.3	117.2	116.0	112.7	111.6	108.3	107.2	102.8	100.6	92.8	81.8
15°	129.3	128.2	126.0	124.9	121.6	119.4	120.5	119.4	117.2	107.2	90.6
17.5°	141.5	140.4	139.3	139.3	139.3	137.0	135.9	133.7	131.5	116.0	96.2
20°	165.8	162.5	159.2	156.9	161.4	162.5	162.5	160.3	160.3	133.7	110.5
22.5°	211.1	207.8	205.6	189.0	195.6	226.6	236.5	225.5	227.7	175.7	121.6
25°	331.6	320.5	315.0	317.2	336.0	370.2	375.8	362.5	369.1	273.0	194.5
27.5°	387.9	390.1	433.2	477.5	483.0	500.7	530.5	502.9	488.5	349.2	243.1
30°	395.7	400.1	479.7	515.0	501.8	492.9	559.2	478.6	454.2	330.5	267.5
32.5°	364.7	384.6	469.7	484.1	453.1	404.5	453.1	385.7	378.0	287.4	254.2
35°	423.3	433.2	471.9	416.7	406.7	466.4	591.3	518.3	500.7	354.8	244.3
37.5°	512.8	509.5	583.6	626.7	611.2	550.4	615.6	560.3	546.0	446.5	349.2
40°	626.7	618.9	708.4	728.3	714.0	710.7	796.9	648.8	621.1	498.5	414.5
42.5°	658.7	660.9	718.4	767.0	756.0	754.9	884.2	731.7	689.7	504.0	455.3
45°	673.1	685.2	795.8	765.9	777.0	757.1	872.0	753.8	718.4	560.3	536.0
47.5°	584.7	591.3	743.8	744.9	604.6	609.0	711.8	627.8	602.3	438.8	462.0
50°	754.9	753.8	809.0	764.8	700.7	811.2	1019.0	987.0	968.2	658.7	512.8
52.5°	1092.0	1079.8	1163.8	1233.4	1220.2	1475.5	1784.9	1771.7	1704.2	1292.0	810.1
55°	1436.8	1431.3	1524.1	1769.4	1887.7	2127.5	2428.2	2344.2	2318.7	1903.2	1273.2
57.5°	1720.8	1721.9	1751.8	1962.9	2203.8	2668.0	3188.5	3286.9	3235.0	2456.9	1547.3
60°	2027.0	2002.6	1901.0	2051.3	2502.2	3041.6	3853.9	4124.7	4074.9	3022.8	1713.1
62.5°	2048.0	2023.6	1850.1	2002.6	2347.5	2843.7	3573.2	3793.1	3850.6	3176.4	1762.8
65°	1955.1	1925.3	1710.9	1824.7	1965.1	2265.7	3159.8	3072.5	3155.4	3128.9	1761.7
67.5°	1852.3	1828.0	1626.9	1721.9	1830.2	2031.4	2974.1	2756.4	2841.5	2943.2	1844.6
70°	1748.4	1714.2	1551.7	1654.5	1788.2	1924.2	2738.7	2534.3	2512.2	2493.4	1761.7
72.5°	1730.8	1704.2	1531.8	1603.7	1755.1	1855.7	2700.0	2543.1	2521.0	2404.9	1611.4
75°	1595.9	1593.7	1427.9	1495.4	1677.7	1740.7	2592.8	2472.4	2425.9	2276.7	1418.0
77.5°	1288.7	1272.1	1151.6	1222.4	1387.0	1474.4	2231.4	2153.0	2126.4	1987.2	1172.6
80°	866.5	852.1	800.2	841.1	994.7	1071.0	1674.4	1667.8	1647.9	1556.1	866.5
82.5°	492.9	517.2	468.6	487.4	540.5	634.4	1041.1	995.8	981.4	916.2	491.8
85°	277.4	271.9	253.1	250.9	292.9	288.5	449.8	385.7	401.2	347.0	234.3
87.5°	200.0	204.5	184.6	184.6	204.5	202.3	282.9	266.4	264.1	247.6	168.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P588629

CATALOG NUMBER: ARC-CA6-90-740-U-33-6-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
2.5°	50.8	49.7	46.4	43.1	37.6	32.1	28.7	30.9	32.1	33.2	33.2
5°	55.3	53.1	46.4	39.8	33.2	27.6	23.2	21.0	21.0	22.1	22.1
7.5°	65.2	61.9	53.1	45.3	36.5	30.9	25.4	22.1	19.9	19.9	19.9
10°	70.7	67.4	57.5	48.6	39.8	33.2	27.6	23.2	21.0	19.9	19.9
12.5°	76.3	71.8	61.9	51.9	42.0	34.3	28.7	24.3	23.2	23.2	23.2
15°	82.9	76.3	64.1	53.1	43.1	35.4	28.7	25.4	24.3	24.3	24.3
17.5°	89.5	82.9	68.5	54.2	44.2	35.4	29.8	25.4	24.3	25.4	25.4
20°	100.6	88.4	68.5	55.3	44.2	35.4	29.8	25.4	25.4	25.4	25.4
22.5°	106.1	96.2	72.9	56.4	45.3	36.5	29.8	25.4	25.4	25.4	25.4
25°	163.6	121.6	76.3	58.6	46.4	37.6	29.8	26.5	25.4	26.5	26.5
27.5°	205.6	171.3	87.3	61.9	47.5	38.7	30.9	26.5	26.5	27.6	27.6
30°	228.8	195.6	95.0	67.4	50.8	39.8	32.1	27.6	27.6	27.6	27.6
32.5°	217.7	176.8	96.2	74.0	56.4	42.0	33.2	28.7	28.7	28.7	28.7
35°	189.0	145.9	93.9	75.2	59.7	46.4	35.4	29.8	29.8	28.7	28.7
37.5°	264.1	183.5	97.3	75.2	61.9	49.7	38.7	32.1	30.9	29.8	29.8
40°	312.8	204.5	107.2	80.7	61.9	50.8	40.9	35.4	33.2	32.1	30.9
42.5°	347.0	224.4	114.9	88.4	68.5	53.1	42.0	38.7	35.4	33.2	33.2
45°	396.8	237.6	124.9	97.3	75.2	58.6	45.3	39.8	38.7	36.5	35.4
47.5°	362.5	242.0	134.8	107.2	82.9	64.1	49.7	43.1	42.0	39.8	38.7
50°	372.5	235.4	138.2	113.8	90.6	68.5	54.2	47.5	45.3	43.1	43.1
52.5°	508.4	311.7	151.4	117.2	93.9	75.2	58.6	51.9	49.7	47.5	47.5
55°	830.0	477.5	186.8	129.3	97.3	77.4	63.0	57.5	54.2	51.9	50.8
57.5°	1084.2	674.2	236.5	158.0	116.0	81.8	65.2	63.0	60.8	56.4	55.3
60°	1315.2	854.3	278.5	190.1	145.9	106.1	75.2	69.6	68.5	61.9	59.7
62.5°	1503.1	1003.5	312.8	207.8	166.9	137.0	102.8	86.2	77.4	69.6	67.4
65°	1571.6	1053.3	326.0	211.1	172.4	152.5	129.3	117.2	91.7	79.6	77.4
67.5°	1598.1	1042.2	332.7	204.5	168.0	152.5	135.9	137.0	111.6	88.4	85.1
70°	1546.2	999.1	329.4	197.8	161.4	148.1	132.6	128.2	116.0	95.0	90.6
72.5°	1429.0	959.3	328.2	196.7	159.2	142.6	122.7	109.4	99.5	93.9	91.7
75°	1311.9	932.8	323.8	195.6	155.8	134.8	111.6	95.0	81.8	82.9	85.1
77.5°	1114.1	823.4	299.5	181.3	140.4	117.2	96.2	84.0	74.0	72.9	72.9
80°	842.2	611.2	245.4	151.4	114.9	95.0	79.6	75.2	69.6	67.4	66.3
82.5°	466.4	321.6	158.0	112.7	90.6	74.0	67.4	67.4	64.1	60.8	60.8
85°	213.3	180.2	117.2	93.9	77.4	64.1	58.6	58.6	55.3	51.9	50.8
87.5°	165.8	142.6	99.5	87.3	75.2	63.0	56.4	56.4	53.1	50.8	50.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)